- 22. (Original) The device of claim 20 wherein the sensor element consists essentially of NiCo₂O₄.
- 23. (Original) The device of claim 18 wherein the sensor element includes a substrate comprising a film or layer of Ni_xCo_{1-x}O_y and electrodes attached to the film or layer.
- 24. (Original) The device of claim 23 wherein the film or layer consists essentially of NiCo₂O₄.
- 25. (Original) The device of claim 24 wherein the electrodes are gold.
- 26. (Original) The device of claim 25 wherein a voltage is applied to the sensor element and the current flow is monitored.
- 27. (Original) The device of claim 23 wherein the film or layer is formed by thermal decomposition of solutions of the metal nitrates onto a substrate.
- 28. (Original) The device of claim 27 wherein the metal nitrates comprise a mixture of cobalt and nickel nitrates.
- 29. (Original) The device of claim 28 wherein the film or layer is made by forming a gel of cobalt nitrate and nickel nitrate in a stoichiometric ratio by evaporation of a solution of the mixed nitrates on the substrate and drying and heating the gel at from 250 °C to 650 °C to form a film or layer having the formula Ni_xCo_{1-x}O_y on the substrate.

- 30. (Original) The device of claim 29 wherein the substrate is nickel foil.
- 31. (Original) The device of claim 29 wherein the film or layer is formed by electrostatic spray deposition.
- 32. (Original) The device of claim 18 wherein when the level of carbon monoxide exceeds a predetermined level, the device emits an alarm or warning.
- 33. (Original) The device of claim 19 wherein when the level of carbon monoxide exceeds a predetermined level, the device emits an alarm or warning.
- 34. (Original) The device of claim 29 wherein the film or layer further comprises palladium as a surface or bulk additive.
- 35. (Original) The device of claim 34 wherein the sensor element comprises 1 to 5% palladium by weight.
- 36. (Original) The device of claim 29 wherein the sensor element is a film or a layer and comprises graphite powder.
- 37. (Original) The device of claim 36 wherein the sensor element comprises 5 to 20% graphite powder by weight; and wherein the graphite powder has an average particle size less than one micron.
- 38. (Original) The device of claim 18 wherein a voltage is applied across the sensor element and, when carbon monoxide is detected, the resistance of the

PRELIMINARY AMENDMENT

Serial Number: Unknown Filing Date: Herewith

Title: CARBON MONOXIDE DETECTOR

sensor element increases and the current through the sensor element decreases; and triggering an alarm or warning when the current decreases below a predetermined level.

- 39. (Original) The device of claim 18 wherein the change in the current passing through the sensor element is continuously monitored and displayed as a record of carbon monoxide levels.
- 40. (Original) The device of claim 18 further comprising a reference sensor element